Shielded LV Power Cable, 0.6/1kV

LV POWER CABLES (0.6/1KV)

0.6/1kV cable with a copper tape or braided screen and drain wire, for variable speed drive outputs and feeders in electrically noisy plants.

VOLTAGE	SCREEN	SIZE	DRAIN
0.6/1 kV	Cu tape / braid	1.5 – 300 mm²	Tinned Cu

TECHNICAL DATA

Standard	IEC 60502-1, IEC 60228	**Drain wire**	Tinned copper, 0.5 – 6 mm² depending on size
Rated voltage	0.6/1 kV (U0/U)	**Sheath**	PVC ST2, PE or LSZH
Conductor	Class 1 or Class 2 copper	**Bending radius**	12 × overall diameter
Cross-section	1.5 – 300 mm²	**Termination**	Full-circumference screen bond at both ends
Insulation	XLPE (90 °C) or PVC (70 °C)	**Packing**	Drum, project lengths
Screen	Copper tape (overlapping) or braided copper, coverage on request		

Typical values. The final construction is confirmed on the order datasheet and the released drawing.

STANDARDS, TESTING AND DOCUMENTS

Routine tests	Conductor resistance, voltage test and insulation resistance on every length
Type tests	Type-test reports for each construction, witnessed by a third party on request
Documents with the drum	Packing list, drum list, routine test certificate, datasheet, CO / FORM A
Traceability	Drum number marked and recorded against the routine test certificate

OTHER CONSTRUCTIONS FROM THE SAME RANGE

0.6/1kV PVC/XLPE Insulated LV Power Cable	www.zmslvcable.com/products/lv-power-cables-0-6-1kv/pvc-xlpe-lv-power-cable/
Flexible Drag Chain Industrial Cable	www.zmslvcable.com/products/flexible-industrial-cables/drag-chain-cable/

PACKING AND DELIVERY

Drum	Wooden or steel-framed export drum, 250–500 m per drum by cross-section
Packing	Sealed ends, protected lugs, desiccant, UV-resistant wrap
Marking	Drum no., designation, voltage, cross-section, length, gross weight
Lead time	15–25 working days for standard builds
Terms	FOB Qingdao, Tianjin or Shanghai. CIF, CFR and DAP on request

HOW TO ORDER

To quote, send the voltage class (U0/U), conductor material and cross-section, screen or armour, sheath, drum length, delivery port and the standard the project specifies. We return a released drawing, the test programme and a drum plan with the quotation.

SELECTION NOTES

Should the screen be earthed at one end or both?
For drive output cables and EMI control, bond at both ends. Single-end bonding is used in specific low-frequency analogue situations and does not control high-frequency noise.

Does a screen reduce the cable current rating?
Slightly. The screen adds thermal resistance and, in some arrangements, circulating currents. Confirm derating if the cable is fully loaded or grouped with others.

Can I use shielded cable for the motor and unshielded for the supply?
Yes, and it is common practice: screen the drive-to-motor cable, which carries the PWM waveform, and use a standard cable on the supply side.

What coverage do you offer?
Copper tape is normally specified as overlapping tape giving full coverage; braided screens are quoted by coverage percentage, typically 85 % or higher. State the requirement if the project specifies a value.

Certification. Environmental management to ISO 14001:2015 and occupational health and safety to ISO 45001:2018, with CE marking under the EU low-voltage and EMC directives. Independent inspection and type testing are carried out through ISO/IEC 17020 and 17025 accredited laboratories. Certificate numbers and validity dates are published at www.zmslvcable.com/certificates/.

Request a quotation for this cable

Send the specification sheet or the cable schedule and we return a released drawing, the test programme and a drum plan with the price.

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